

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/891,611	06/27/2001	Mamoru Nakasuji	010817	8874
23850	7590 08/07/2003			
ARMSTRONG,WESTERMAN & HATTORI, LLP 1725 K STREET, NW SUITE 1000			EXAMINER	
			BERMAN, JACK I	
WASHINGTO	ON, DC 20006		ART UNIT	PAPER NUMBER
			2881	
			DATE MAILED: 08/07/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
,	09/891,611	NAKASUJI ET AL.				
· Office Action Summary	Examiner	Art Unit				
	Jack I. Berman	2881				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on	•					
,	is action is non-final.					
3) Since this application is in condition for allowa	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-104</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-104</u> are subject to restriction and/or election requirement. Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				
L U.S. Patent and Trademark Office						

Application/Control Number: 09/891,611

Art Unit: 2881

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-14, 29-50, 70, 83-85, 88-93, and 100, drawn to an apparatus and method for inspection using a plurality of charged particle beams, classified in class 250, subclass 310.
- II. Claims 15-23, 71-75, 99, 102, and 103, drawn to an inspection system having anXY-stage with hydrostatic bearings, classified in class 250, subclass 442.11.
- III. Claims 24-28, 86, and 87, drawn to an inspection system for a plurality of inspection regions, classified in class 250, subclass 310.
- IV. Claims 51-55, 94, 95, and 101, drawn to a charged particle beam inspection apparatus and method wherein different voltages are applied to the objective lens, classified in class 250, subclass 310.
- V. Claims 56-60 and 96, drawn to an inspection system with a plurality of beams and at least two kinds of pixel dimensions, classified in class 250, subclass 310.
- VI. Claims 61-65, 82, 97, and 98, drawn to an inspection system with a plurality of beams and sample charging investigating means, classified in class 250, subclass 310.
- VII. Claims 66-69, drawn to an E x B separator, classified in class 250, subclass 396R.
- VIII. Claims 76-81an 104, drawn to a setting method and apparatus for varying a crossover position in an inspection apparatus, classified in class 250, subclass 396R.

The inventions are distinct, each from the other because of the following reasons:

Application/Control Number: 09/891,611

Art Unit: 2881

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II has separate utility such as a sample stage in a scanning electron microscope. See MPEP § 806.05(d).

Inventions I and VII are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the inspection apparatus of Invention I does not require the particular E x B separator of Invention VII. The subcombination has separate utility such as an E x B separator in a scanning electron microscope.

Inventions I, III, IV, V, VI, and VIII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case Invention I uses a plurality of beams in a single optical column and Inventions III and IV use a single beam in a column. Also Invention I does not: apply different voltages to the objective lens, as does Invention IV; have at least two different pixel dimensions, as does Invention V; have sample charging investigating means, as does Invention VI; or have the crossover position varying means of Invention VIII.

Application/Control Number: 09/891,611

Art Unit: 2881

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

A telephone call was made to William Kratz, Jr. on August 4, 2003 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack I. Berman whose telephone number is (703) 308-4849. The examiner can normally be reached on M-F (8:30-6:00) with every second Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (703) 308-4116. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Art Unit: 2881

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Jack V. Jorman Jack I. Berman Primary Examiner Art Unit 2881

jb August 5, 2003